

2016 Compliance Report for the Merlin Sewage Lagoons Public Utilities Commission for the Municipality of Chatham-Kent

The Merlin Sewage Lagoons provide treatment of wastewater for the former Police Village of Merlin. Wastewater is collected by a separate sanitary sewer system and conveyed by one raw pump station to the Sewage Lagoons. The final effluent is subsequently discharged to the Foxtan Drain.

Approval was received from the Ministry of the Environment in 1975 for construction of sanitary sewers, a force main, a sewage pumping station, and two waste stabilisation ponds.

According to a capacity assessment prepared by R. V. Anderson Associates Limited for the Municipality of Chatham-Kent, average daily flow of sewage into the treatment plant should not exceed 464m³/day.

The present treatment system consists of:

- One raw pumping station
- Two waste stabilisation cells
- Two effluent chambers

The effluent chambers discharge to the Foxtan Drain.

C of A # 1-0192-69-753576

The following Ministry Procedures / Guidelines apply:

- Procedure F-5-1: Minimum effluent limits BOD₅, Suspended Solids
- Guideline F-8: Effluent limits Phosphorus
- Procedure F-10-1: Minimum monitoring program
- Table C-1: Monitoring, recording and reporting bypasses

Non-compliance issues in 2016:

There were no non-compliance issues.

**2016 Compliance Report for the Merlin Sewage Lagoons
Public Utilities Commission for the Municipality of Chatham-Kent**

Rated capacity: 464 m3/day

Total sewage flow to the works during a calendar year divided by the number of days during which sewage was flowing to the works that year

Month	Total Monthly Flow m3	Average Daily Flow /Month m3/day	Avg Daily Flow/Year m3/day	% of Plant Capacity	BOD5 mg/L	Total S.S. mg/L	Total P mg/L
Limits: Freezing	None	None	464	100			
Limits: Non Freezing	None	None	464	100	25	25	1.0
Jan	3,415	110					
Feb	3,798	131					
Mar	5,323	172					
Apr	4,604	153			2	6	0.17
May	4,228	136					
Jun	3,214	107					
Jul	2,962	99					
Aug	3,057	99					
Sept	3,296	110					
Oct	3,313	107					
Nov	3,246	108					
Dec	3,595	116					
Year			121	26			
	Yearly Total Flow m3	Yearly Maximums					
	44,051	172			2	6	0.17